



# **Dominican Institute for Quality**

# **SITUATION OF THE DOMINICAN REPUBLIC. RENEWABLE ENERGY AND ENERGY EFFICIENCY, ACHIEVEMENTS AND IMPACTS**

# LEGAL FRAMEWORK FOR ENERGY EFFICIENCY AND RENEWABLE ENERGY RD



## General Electricity Law 125-01

- Establish regulatory framework for the electricity sector

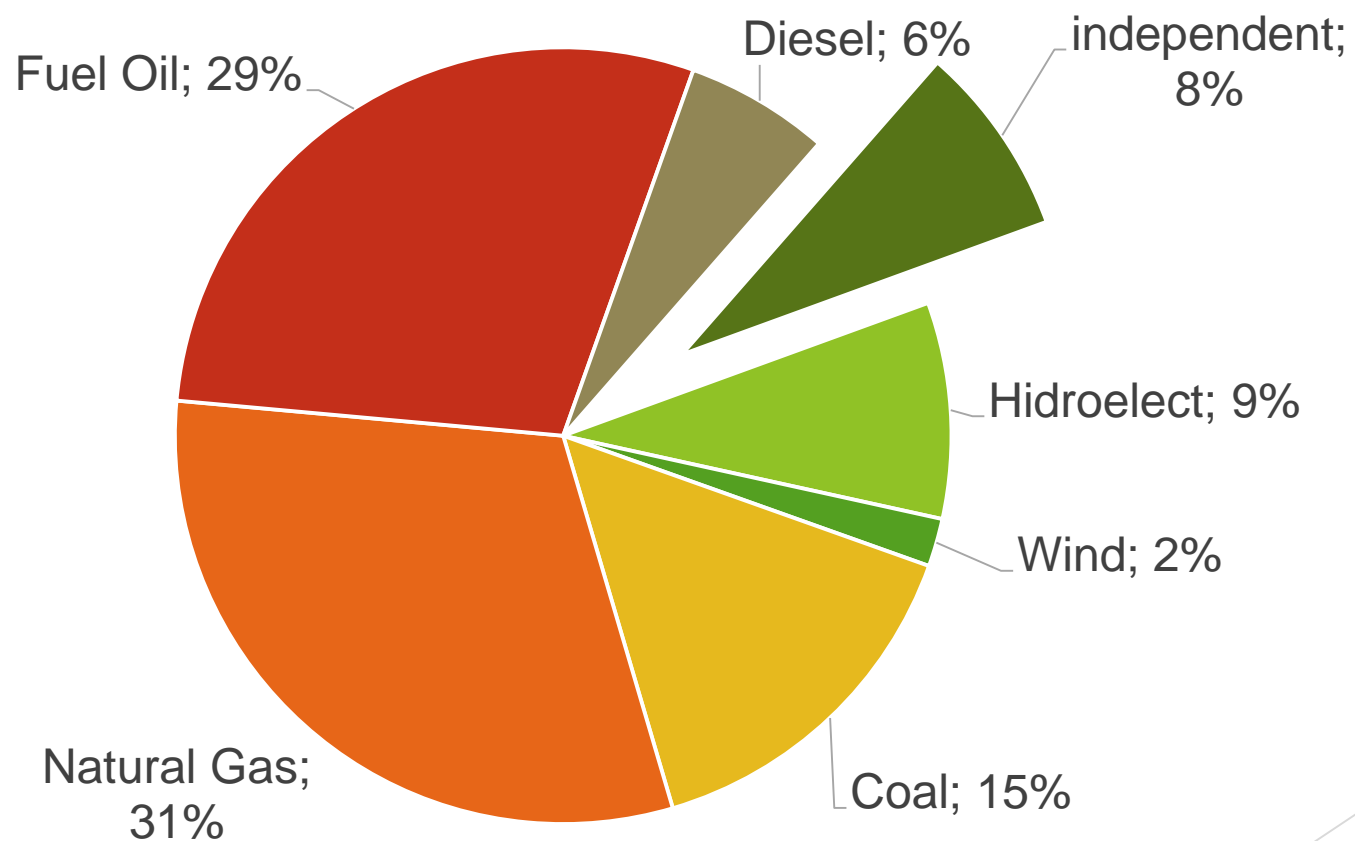
## Law incentives for the development of renewable energy no. 57-07

- Stimulating investment projects renewable energy sources.
- 100% free of tax on imported equipment and machinery.
- Provides consultations, consulting and financial support from the state to the investor.

## Incentive law to imports of non-conventional energy vehicles No.103

- Promote the use of vehicles that do not pollute the environment, and reduce levels of environmental pollution by emissions from motor vehicles that run on fossil fuels.

# MATRIX GENERATION IN DOMINICAN REPUBLIC



What do we have in terms of energy efficiency and Renewable Energy?



What are we doing in terms of energy efficiency and Renewable Energy?



What will we do in the immediate future on energy efficiency and Renewable Energy?

# 85 MW WIND FARM CAPACITY



Los Cocos I (25 MW)



Los Cocos II (52 MW)



Quilvio Cabrera (8 MW)

# SOLAR PARK



Various Independent  
Generation Producers

About 6,1 MW

# CIBAO AIRPORT, SOLAR SYSTEM 1,5 MWp EXTENSION TO 3 MW





# MULTIPLES GREEN BUILDINGS, WHICH PROVIDE AN IMPORTANT PORTION OF THEIR ENERGY NEEDED FOR ITS OPERATION



# BIOGAS (2,2 MW)

12 Autoproducers Company



- Excreta pork, chicken and hen.
- Processing animal remains.
- Effluent oil extraction

# BIOGAS PROCESSING PLANT



Fuente: CNE



# PROJECTS UNDER CONSTRUCTION WITH CAPACITY OF 259 MW



## Wind

- Matafongo (Wind Group Dominicano): 50 MW
- Montecristi (Windfarm Caribbean): 50 MW
- Larimar (Ege-Haina): 50 MW



## Solar Photovoltaic

- Monte Plata: 30 MW
- Monte Cristi / Gestamp 50 MW



## Biomass

- Industrial Agricultural waste (San Pedro Bioenergy 25 MW
- Induspalma 1 MW).
- 3 MW plant in Santiago CZFI - GEF / UNIDO

# DEFINITIVE CONCESSIONS RENEWABLE ENERGY PROJECT GRANTED BY THE CNE

## Wind

- 8 Concessions
- 500 MW



## Solar

- 5 Concessions
- 204 MW



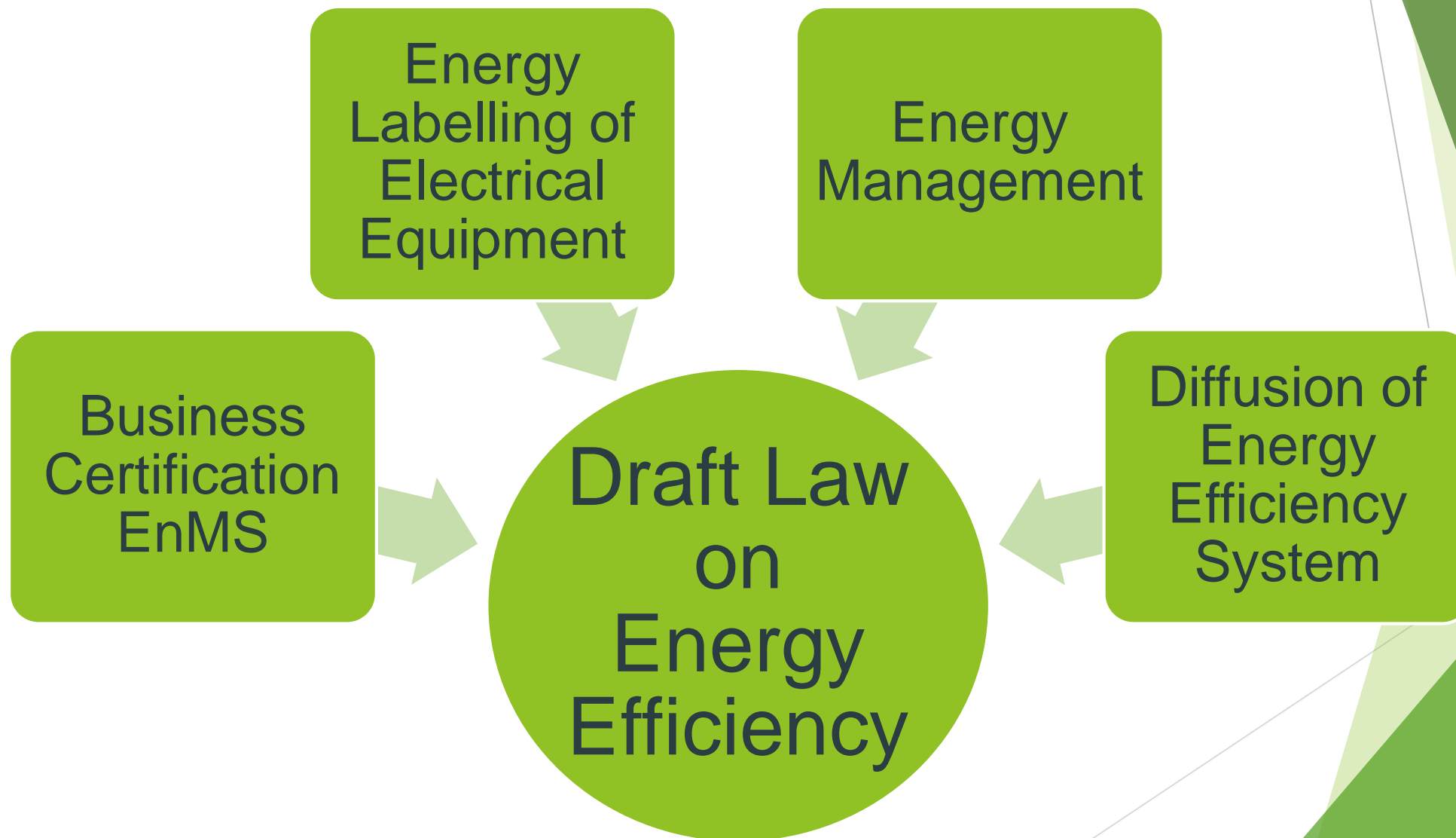
## Hidroelect.

- 2 Concessions
- 9 MW (mini)



# ENERGY EFFICIENCY

# NATIONAL ENERGY EFFICIENCY PROGRAM



# ENERGY EFFICIENCY PROGRAMS



Change incandescent bulbs with energy saving bulbs in all users in the country.

Replacing conventional lighting with LED luminaires in state institutions

Installation of Capacitor Banks in domestic water systems and institutions that require



# GREEN BUILDING



# THE FIRST "GREEN HOUSE" ONE YEAR IN THE COUNTRY. YEAR 2011



Fuente: CNE

# LIGHTBULB SUN



## PURPOSE PROGRAM

- Awareness among people regarding energy saving.
- Improving the lighting inside the home during the day.
- Reducing electricity consumption.
- Caring for the environment.

Beneficiaries: 753 families with very limited resources.



## LIGHTBULB SUN:

The program includes the installation of transparent plastic bottles of 2,5 liters with purified water in the tin roofs of the houses, which reflect sunlight illuminating the interior of these, with more power than traditional bulbs.

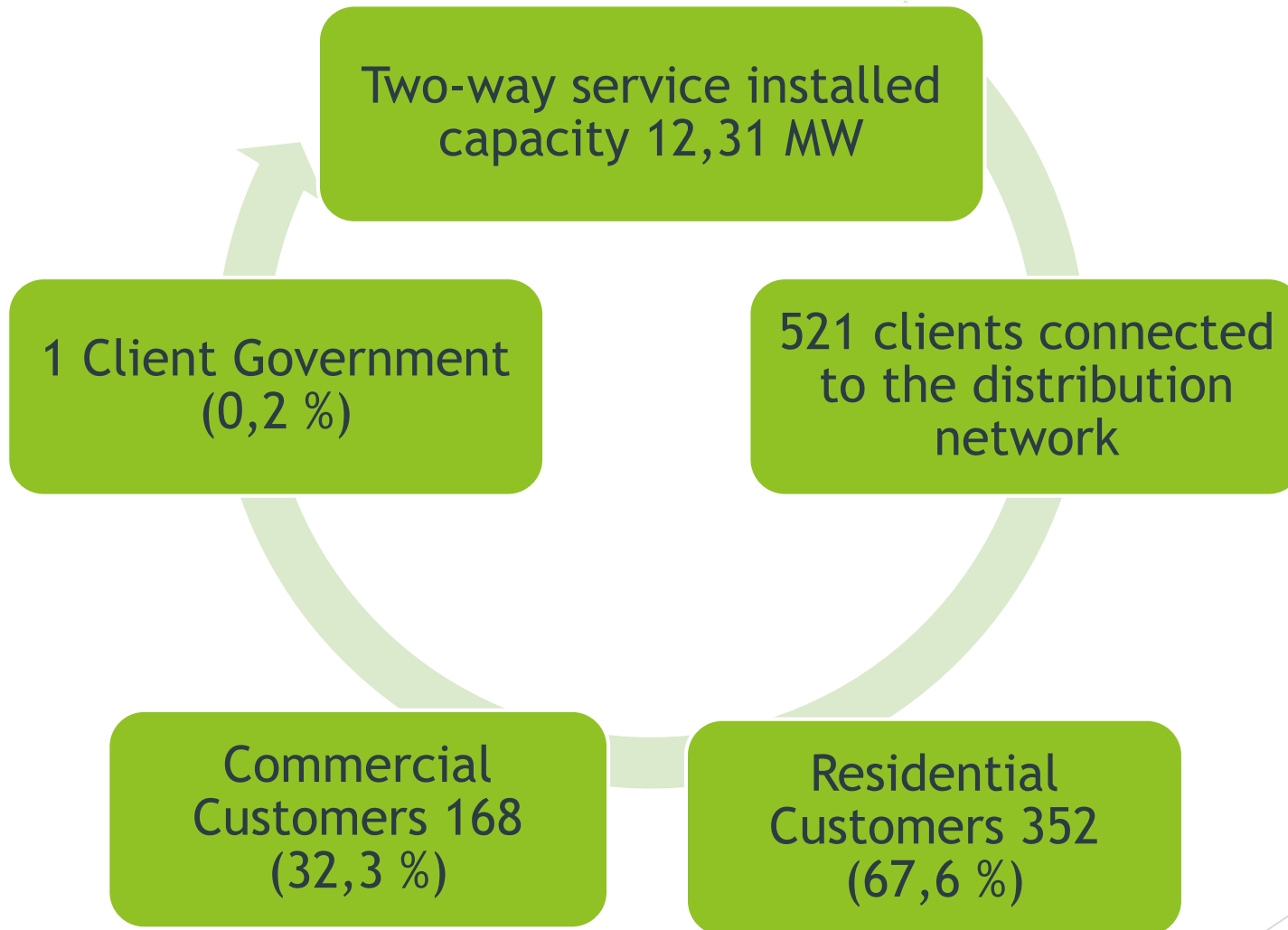


# NET METERING

What does  
it consist  
of?

- System bidirectional measurement of electric service to users who choose to partially or fully auto-sufficient by generating systems based on renewable sources thus surplus energy, shall be reduced or offset by the energy consumed.

# EVOLUTION OF NET METERING PROGRAM

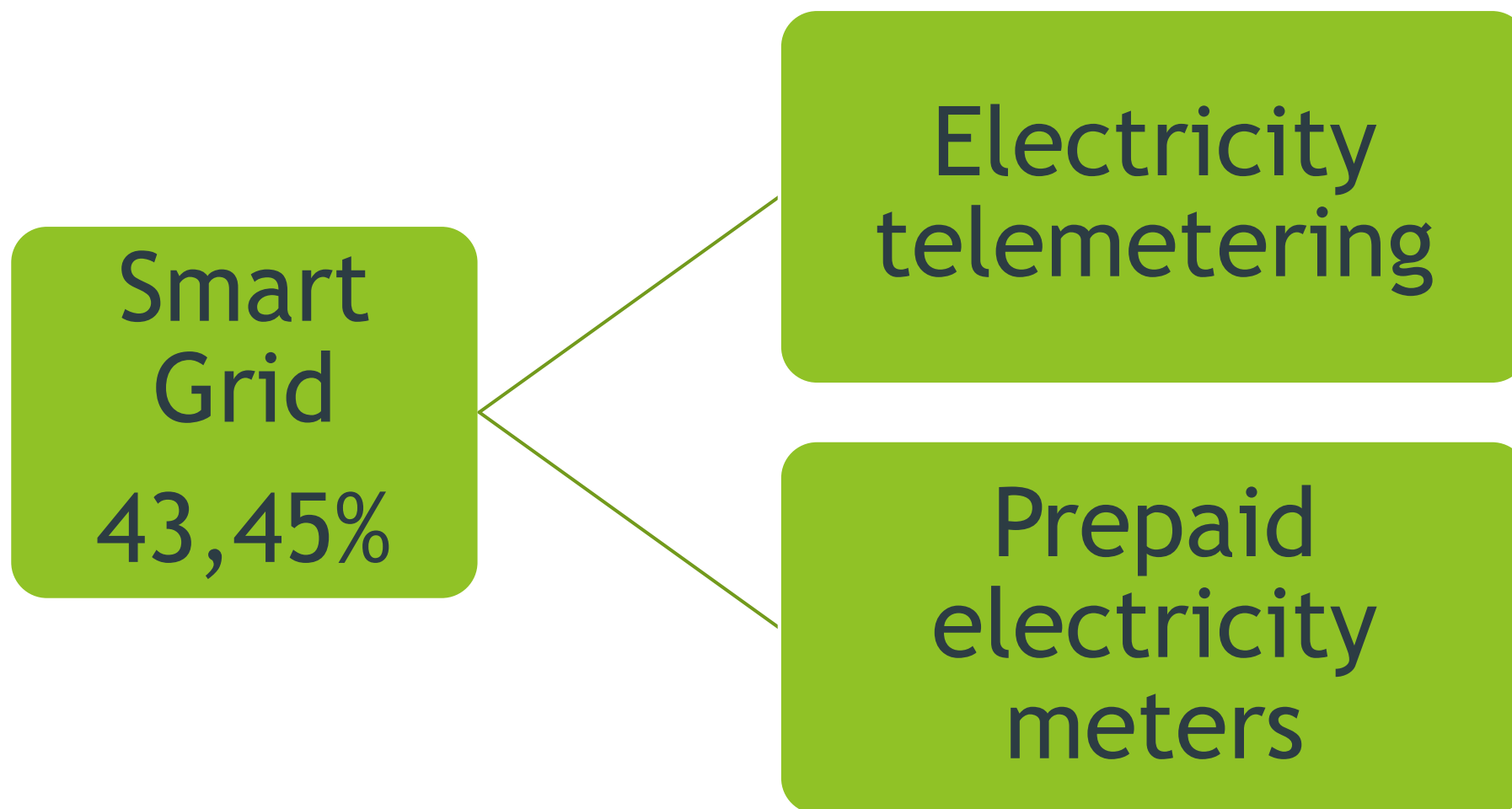


**We have an electrical measurement laboratory accredited under the ISO/IEC17025 Standard**

Ensure measurements taken

**We have a magazine where the statistics are compiled and activities of the energy sector**

Collect the stats and sector activities to measure



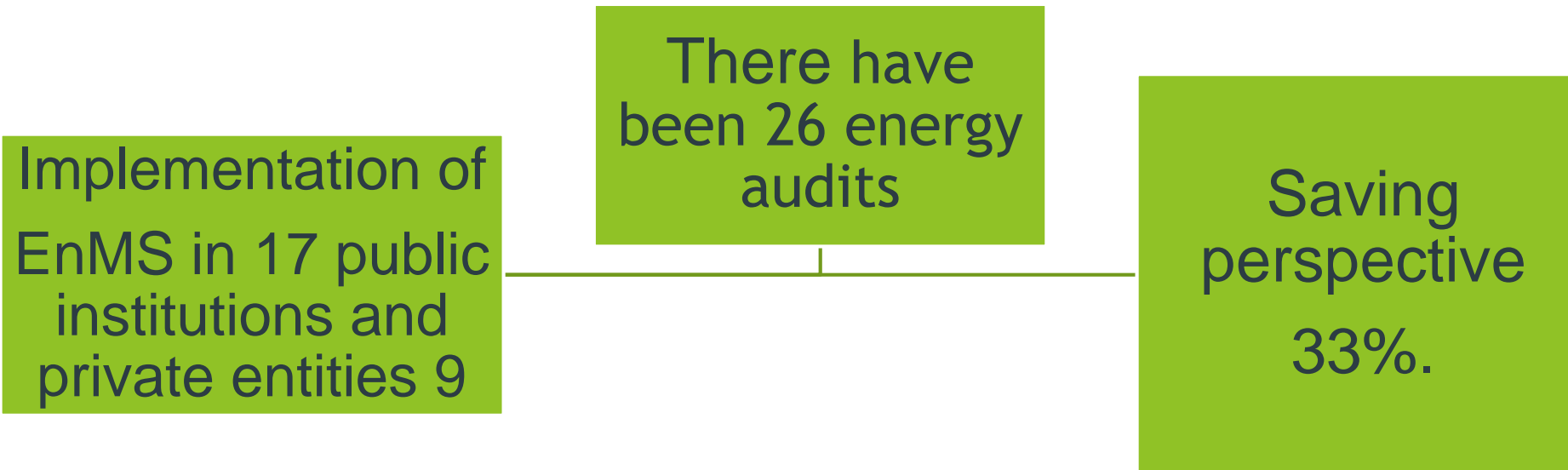


## EDUCATIONAL PROGRAMS

- As educational program, there have been talks of Energy Efficiency to more than 120 000 people training centers and other entities.



# IMPLEMENTATION OF ENERGY SYSTEM EFFICIENT IN OUR COUNTRY



With the implementation of projects in Energy Management, based on the National Plan for Energy Efficiency possible.

- Saving electric generation plant of 537 MW
- Mitigate CO2 emissions of 2,903 million tons / year.

**thanks**